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Protein Design Labs, Inc.

<130> 011823-008110US

<141> 1999-11-29

<151> 1998-12-01

<170> PatentIn Ver. 2.1

<211> 381

<213> Mus sp.

<221> CDS

<223> AF2 VL

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Met Glu Ser Gln Thr Leu Val Phe Ile Ser Ile Leu Leu Trp Leu Tyr  
1 5 10 15

ggt gct gat ggg aac att gtt atg acc caa tct ccc aaa tcc atg tac 96  
Gly Ala Asp Gly Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Tyr  
20 25 30

gtg tca ata gga gag agg gtc acc ttg agc tgc aag gcc agt gaa aat 144  
Val Ser Ile Gly Glu Arg Val Thr Leu Ser Cys Lys Ala Ser Glu Asn  
35 40 45

gtg gat act tat gta tcc tgg tat caa cag aaa cca gag cag tct cct 192  
Val Asp Thr Tyr Val Ser Trp Tyr Gln Gln Lys Pro Glu Gln Ser Pro  
50 55 60

aaa ctg ctg ata tat ggg gca tcc aac cgg tac act ggg gtc ccc gat 240  
Lys Leu Leu Ile Tyr Gly Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp  
65 70 75 80

cgc ttc acg ggc agt gga tct gca aca gat ttc act ctg acc atc agc 288  
 Arg Phe Thr Gly Ser Gly Ser Ala Thr Asp Phe Thr Leu Thr Ile Ser  
                     85                    90                    95

agt gtg cag gct gaa gac ctt gca gat tat cac tgt gga cag agt tac 336  
 Ser Val Gln Ala Glu Asp Leu Ala Asp Tyr His Cys Gly Gln Ser Tyr  
 100 105 110

aac tat cca ttc acg ttc ggc tcg ggg aca aag ttg gaa ata aag 381  
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Gly Ala Asp Gly Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Tyr  
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Val Ser Ile Gly Glu Arg Val Thr Leu Ser Cys Lys Ala Ser Glu Asn  
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Val Asp Thr Tyr Val Ser Trp Tyr Gln Gln Lys Pro Glu Gln Ser Pro  
           50                          55                          60

Lys Leu Leu Ile Tyr Gly Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp  
       65                          70                          75                          80

Arg Phe Thr Gly Ser Gly Ser Ala Thr Asp Phe Thr Leu Thr Ile Ser  
           85                          90                          95

Ser Val Gln Ala Glu Asp Leu Ala Asp Tyr His Cys Gly Gln Ser Tyr  
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Asn Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys  
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 Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly  
       1                          5                          10                          15

gtc ctc tcc cag gtc caa ctg cag cag cct ggg gct gac ctt gtg atg 96  
 Val Leu Ser Gln Val Gln Leu Gln Gln Pro Gly Ala Asp Leu Val Met  
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<211> 384
<212> DNA
<213> Artificial Sequence
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<220>  
<223> Description of Artificial Sequence:human-mouse  
transgenic construct HuZAF VL

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<220>
<223> Description of Artificial Sequence:human-mouse
transgenic construct HuZAF VL
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<213> Artificial Sequence

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<223> Description of Artificial Sequence:humanized  
immunoglobulin huXAF

&lt;400&gt; 9

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Leu	Lys	Lys	Pro	Gly	Ser
1				5					10					15	

Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Ile	Phe	Thr	Ser	Ser
		20						25					30		

Trp	Ile	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			

Gly	Arg	Ile	Asp	Pro	Ser	Asp	Gly	Glu	Val	His	Tyr	Asn	Gln	Asp	Phe
	50					55					60				

Lys	Asp	Lys	Ala	Thr	Leu	Thr	Val	Asp	Lys	Ser	Thr	Asn	Thr	Ala	Tyr
65					70					75					80

Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	

Ala	Arg	Gly	Phe	Leu	Pro	Trp	Phe	Ala	Asp	Trp	Gly	Gln	Gly	Thr	Leu
			100					105					110		

Val Thr

&lt;210&gt; 10

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

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<223> Description of Artificial Sequence:humanized  
immunoglobulin huZAF

&lt;400&gt; 10

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Leu	Lys	Lys	Pro	Gly	Ser
1				5					10					15	

Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Ile	Phe	Thr	Ser	Ser
		20						25					30		

Trp	Ile	Asn	Trp	Val	Lys	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			

Gly	Arg	Ile	Asp	Pro	Ser	Asp	Gly	Glu	Val	His	Tyr	Asn	Gln	Asp	Phe
	50					55					60				

Lys	Asp	Lys	Ala	Thr	Leu	Thr	Val	Asp	Lys	Ser	Thr	Asn	Thr	Ala	Tyr
65					70					75					80

Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	

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Ala Arg Gly Phe Leu Pro Trp Phe Ala Asp Trp Gly Gln Gly Thr Leu  
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Val Thr

<210> 11

<211> 114

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:humanized  
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Ser Ser  
 20 25 30

Trp Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile  
 35 40 45

Gly Arg Ile Asp Pro Ser Asp Gly Glu Val His Tyr Asn Gln Asp Phe  
 50 55 60

Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Thr Asn Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Phe Leu Pro Trp Phe Ala Asp Trp Gly Gln Gly Thr Leu  
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Val Thr

<210> 12

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<213> Homo sapiens

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<223> Variable region of the human Eu antibody light  
 chain.

<400> 12

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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Asn Thr Trp  
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Met  
 35 40 45

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